HEFS-1.0.2 Install Notes

Release Date: 12/3/2013
Release Type: Scheduled
HEFS Build: 1.0.2
Build and Package Date: 11/12/2013
Tested against FEWS Binary: 2013.01 build 42997, patched from 42428

Introduction

This document describes the procedure to install HEFS software release 1.0.2 at HEFS Test RFCs. It is assumed that the latest CHPS release (CHPS-4.0.1) has been already installed. Please verify that the procedures described in each section have been completed successfully before proceeding to the next section. Instructions for verification will be provided. If you have any questions during the install, please contact the CHPS Support Group within HSD.

The hefsPlugins directory (../HEFS-1.0.2/hefs/hefsPlugins) includes a script for executing hefs plugins (e.g. graphics generator) named *fews_hefsPlugins.sh*. This is a modified fews.sh script and the contents added by OHD **MUST** be used for starting up FEWS with a hefs plugin. You can either use our script to start FEWS or you can add the contents in between ***# start - added for running hefs-plugins*** and ***# finish - added for running hefs-plugins*** to you default fews.sh script.

Any commands to be typed in will be displayed in a fixed width typeface like this:

```
$ ls –l /awips/chps_share/fews
```

Install Instructions

1. *Transfer HEFS from HSD Webserver*

1.1. Log-on to chps9 (i.e. the chps3 equivalent for the test system) as user fews.

1.2. Open Firefox and download the file, release-package.HEFS-1.0.2.20131112.tar.gz from http://165.92.28.30/release/HEFS/hefs-1.0.2. Save the file to <test_root>.

1.3. Untar the package.

1.3.1. `$ tar -zxvf release-package.HEFS- 1.0.2.20131112.tar.gz`

The root directory of the tar file will be referenced as <tar_root_dir> (e.g. HEFS-1.0.2).

1.4. Edit the new fews_hefsPlugins.sh script to incorporate your current –Xmx values.

1.4.1. `$ cd <tar_root_dir>/HEFS-1.0.2/hefs/hefsPlugins`

2. *Setup HEFS on a Standalone*

2.1. Create an up to date SA client for testing.

2.2. Once you have created a new SA, create a HEFS directory under Models.

2.2.1. `$ mkdir –p /awips/chps_share/sa/<user>/<standalone>/Models/hefs`

2.2.2. `$ cd /awips/chps_share/sa/<user>/<standalone>/Models/hefs/`

2.3. Change the 'bin' link to point to the HEFS distribution just downloaded and edit the SA global properties file to point HEFSBINDIR to the bin.

2.3.1. `$ rm bin`

2.3.2. `$ ln –s <tar_root_dir>/HEFS-1.0.2/hefs/bin bin`

2.4. Create a link for the HEFS explorer plugins at the same level as the FEWS bin and the jre.

2.4.1. `$ cd /awips/chps_share/sa/<user>/`

2.4.2. `$ ln –s  <tar_root_dir>/HEFS-1.0.2/hefs/hefsPlugins hefsPlugins`

2.4.3. `$ chmod +x /hefsPlugins/fews_hefsPlugins.sh*`

2.5. Test HEFS on the newly created SA before moving forward.

3. Install HEFS on Test System

3.1. Make a backup of the old HEFS bin directory.

3.1.1. `$ cd /awips/chps_share/hefs`

3.1.2. `$ mkdir HEFS-OldRelease#`

3.1.3. `$ mv /awips/chps_share/hefs/* HEFS-OldRelease#/`

Where oldRelease# is the previous HEFS release number (e.g. HEFS-1.0.2).

3.2. Create the bin directory for files necessary for HEFS execution and create a link within the configuration being edited. Edit the SA global properties file to point HEFSBINDIR to the bin.

3.2.1. `$ mkdir –p /awips/chps_share/hefs/bin`

3.2.2. `$ mkdir –p /awips/chps_share/hefs/evs`

3.2.3. `$ cp <tar_root_dir>/HEFS-1.0.2/hefs/bin/* /awips/chps_share/hefs/bin/.`

3.2.4. `$ cp <tar_root_dir>/HEFS-1.0.2/hefs/evs/* /awips/chps_share/hefs/evs/.`

3.2.5. `$ cd /awips/chps_share/oc/<user>/<client>`

3.2.6. `$ mkdir –p Models/hefs`

3.2.7. `$ ln –s /awips/chps_share/hefs/bin Models/hefs/bin`

3.3. Create the bin directory for files necessary for HEFS FEWS explorer plug-ins.

3.3.1. `$ mkdir –p /awips/chps_share/hefs/hefsPlugins`

3.3.2. `$ cp <tar_root_dir>/HEFS-1.0.2/hefs/hefsPlugins/* /awips/chps_share/hefs/hefsPlugins/.`

3.3.3. `$ chmod +x /awips/chps_share/hefs/hefsPlugins/*.sh`

3.4. Update the OC areas to make the HEFS plugins available at FEWS startup.

3.4.1. `$ cd /awips/chps_share/oc/$USER/`

3.4.2. `$ ln -s /awips/chps_share/hefs/hefsPlugins hefsPlugins`

4. Install HEFS on Forecast Shell Servers (FSS)

4.1. Make a backup of old HEFS FSS bin directory.

4.1.1. `$ cd /awips/chps_local/hefs`

4.1.2. `$ mkdir HEFS-OldRelease#`

4.1.3. `$ mv /awips/chps_local/hefs/* HEFS-OldRelease#`

Where oldRelease# is the previous HEFS release number (e.g. HEFS-1.0.2).

4.2. Stop the FSSs:

4.2.1. `$ cd /awips/chps_local/fss/??rfc/FSS00/mcproxy`

(?? should be replaced with the 2 letter RFC acronym)

4.2.2. Run the mcproxy.sh script

4.2.3. `$./mcproxy.sh stop`

4.2.4. Repeat step 4.2.1 to 4.2.3 for each FSS instance (FSS01 etc.)

4.3. Create the bin directory for HEFS model adapter execution and create a link for the FSS. Edit the SA global properties file to point HEFSBINDIR to the bin.

4.3.1. `$ mkdir –p /awips/chps_local/hefs/bin`

4.3.2. `$ cp <tar_root_dir>/hefs/bin/* /awips/chps_local/hefs/bin/.`

4.3.3. `$ chmod +x /awips/chps_local/hefs/bin/*`

4.3.4. `$ chmod –x /awips/chps_local/hefs/bin /*.jar`

4.3.5. `$ cd /awips/chps_local/fss/??rfc/FSS00/FewsShell/`
(?? should be replaced with the 2 letter RFC acronym)

4.3.6. `$ cd ??rfc`
(?? should be replaced with the 2 letter RFC acronym)

4.3.7. `$ mkdir -p Models/hefs`

4.3.8. `$ ln –s /awips/chps_local/hefs/bin Models/hefs/bin`

4.3.9. Repeat steps 4.3.1 to 4.3.8 for each FSS.

4.4. Restart the FSSs:

4.4.1. `$ cd /awips/chps_local/fss/??rfc/FSS00/mcproxy`
(?? should be replaced with the 2 letter RFC acronym)

4.4.2. Run the mcproxy.sh script

4.4.3. `$./mcproxy.sh start`

4.4.4. Repeat step 4.4.1 to 4.4.3 for each FSS instance (FSS01 etc.)